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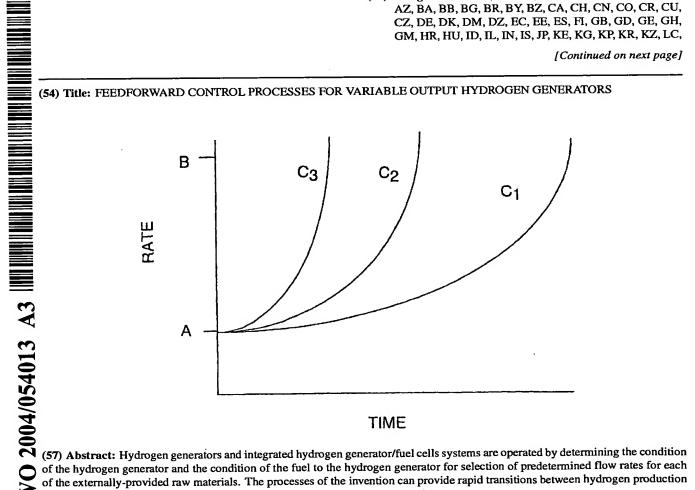
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of the hydrogen generator and the condition of the fuel to the hydrogen generator for selection of predetermined flow rates for each of the externally-provided raw materials. The processes of the invention can provide rapid transitions between hydrogen production rates while enabling enhanced efficiency and stability during transient operations.

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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International Application No PCT/US 03/23759

A. CLASSIF IPC 7	CO1B3/38 CO1B3/48 CO1B3/58	
Accomi	International Patent Classification (IPC) or to both national classification and IPC	
B. FIELDS		
Minimum do	cumentation searched (classification system followed by classification symbols)	
IPC 7	CO1B	
Documentati	on searched other than minimum documentation to the extent that such documents are included in the fields se	earched
Electronic da	ata base consulted during the International search (name of data base and, where practical, search terms used)
	ternal, WPI Data, PAJ, CHEM ABS Data	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
х	US 6 267 792 B1 (YAMASHITA MASASHI ET AL) 31 July 2001 (2001-07-31)	11-15
<u> </u>	cited in the application	16-20
Α	column 2, lines 13-56; figure 1 column 3, lines 6-12	 -
[column 3, line 41 - column 4, line 39 column 5, lines 10-23	
	column 5, lines 10-23 column 7, lines 35-65	_
A	US 6 322 917 B1 (ACKER WILLIAM P)	16-20
	27 November 2001 (2001-11-27) cited in the application	
	column 3, lines 17-47	
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A	EP 1 187 241 A (NISSAN MOTOR) 13 March 2002 (2002-03-13)	11–20
	the whole document	
<u> </u>	her documents are listed in the continuation of box C. Patent family members are listed	in annex.
	olugiones of cited documents: "T" later document published after the lint or priority date and not in conflict with	n the application but
consid	ent defining the general state of the lart which is not cited to understand the principle or the defend to be of particular relevance invention	neory underlying the
liting o		ot be considered to
which	is cried to establish the publication date of another n or other special reason (as specified) "Y" document of particular relevance; the cannot be considered to involve an in	claimed invention eventive step when the
O docum	ent reterring to an oral disclosure, use, exhibition or document is combined with one or means document is combined with one or ments, such combination being obvious	ore other such docu-
P docum	ent published prior to the international filing date but in the art. *a' document member of the same patent	
	actual completion of the international search Date of mailing of the international search	arch report
2	9 June 2004 19/07/2004	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	
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INTERNATIONAL SEARCH REPORT

PCT/US 03/23759

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)							
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
2. X Claims Nos.: 1-10 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210							
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).							
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)							
This International Searching Authority found multiple inventions in this international application, as follows:							
·							
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.							
2. As all searchable claims could be searched without effort justifying an additional fee; this Authority did not invite payment of any additional fee.							
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:							
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:							
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.							

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-10

Present claims 1-10 lacks clarity within the meaning of Article 6 PCT to such an extent as to render a meaningful search of the claims impossible. In claims 1-10 the determination of and controlling the feeds are undefined. How to elect predetermined feed rates is not clear. The description does not give any further aid to these problems. Consequently, the search has been carried out for those parts of the application which do appear to be clear, namely claims 11-20 in combination with the description. From claims 11-20, the ratios of the raw materials seem to be important.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.





Information on patent family members

International Application No PCT/US 03/23759

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US 626779	02 B1	31-07-2001	JP CA DE DE EP	2000053403 2277671 69912044 69912044 0978476	A1 D1 T2	22-02-2000 03-02-2000 20-11-2003 19-05-2004 09-02-2000
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